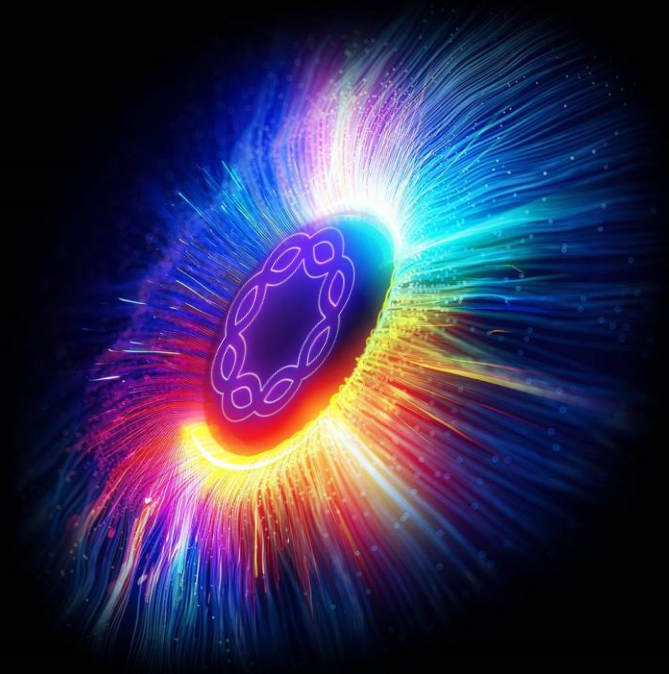
ribbon

INSIGHTS



Apollo Optical Networking

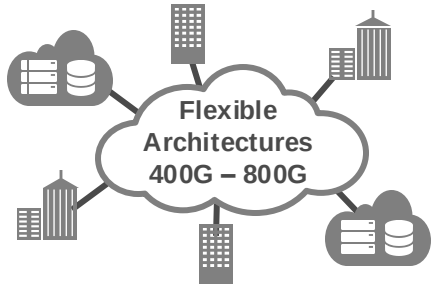
Jaime Watts

NA Regional PLM

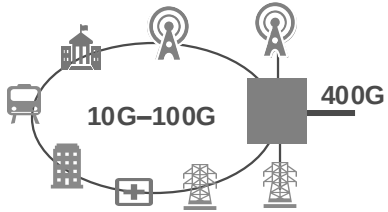
ribbon INSIGHTS

Why Apollo
Very Strong Recognized Technology Addressing All Applications

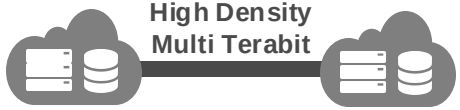
Metro-Regional Transport



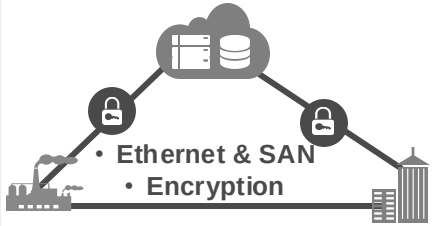
Aggregation



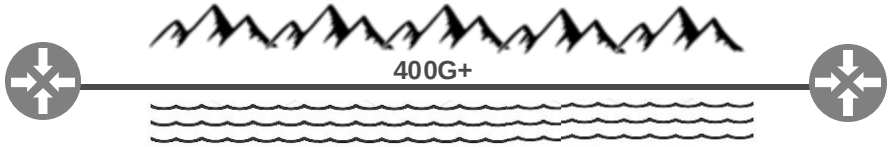
Cloud DCI



Enterprise DCI

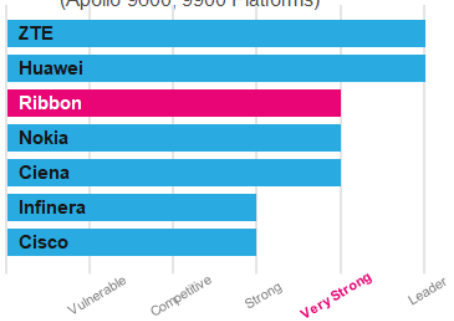


LH and Submarine

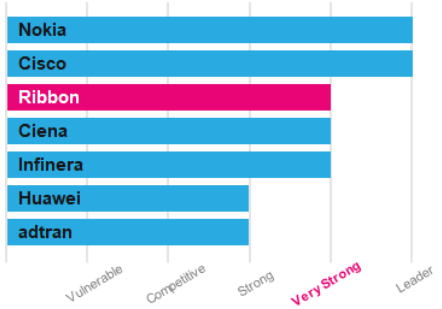


Global Data Rankings

Metro Optical Networking
(Apollo 9600, 9900 Platforms)



Compact Modular
(Apollo 9400 Platform)



Apollo Optical Networking Highlights

High Density Data Center

9408 Optical Transport | **9458 OLS**

- Capacity-reach optimized to 1.2T
- Power-cost optimized 400G/800G

8-degrees per 4RU

Modular 400G+ Everywhere

Capacity-Reach Optimized

TM800_2 – 140Gbaud λs

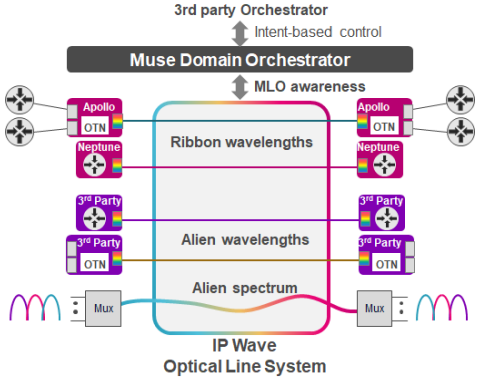
- Regional 800G
- Unlimited 400G

Metro Power-Cost Optimized

TM400_2

- Pay-as-you-grow 400G
- OpenROADM interop

Super OLS



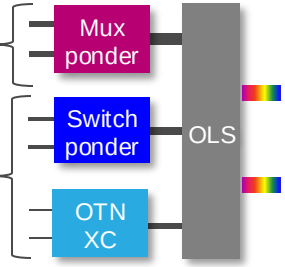
- Any wavelength
- Shared spectrum
- Dynamic WSON restoration
- Optical and fiber health

Optimized Architecture

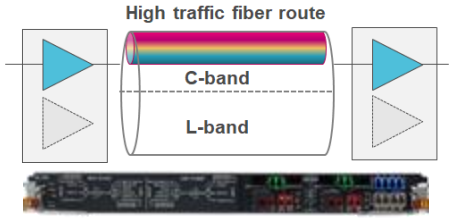
Complete set of building blocks to create optimized architectures for all service speeds

Medium to high speed
- 100/400/800GbE
- OTU4

Low to medium speed
- 10/100GbE
- OTU2/2e, OTU4
- SDH/SONET



C+L Band



Pay as you grow for extra capacity
Where you need it – When you need it

Open Control Interfaces

Open ROADM | OPENCONFIG | ONF | gNMI telemetry

Optical overlay for SDN applications

Apollo Optical Networking Portfolio

9400 Series
High Density Applications

- Compact modular OT and OLS platforms
- Data center optimized with telco NEBS

9408 **9458**

9600 Series
Modular Applications

- Rich set of transmission and OLS cards, usable across all platforms without engineering rules
- Telco and data center

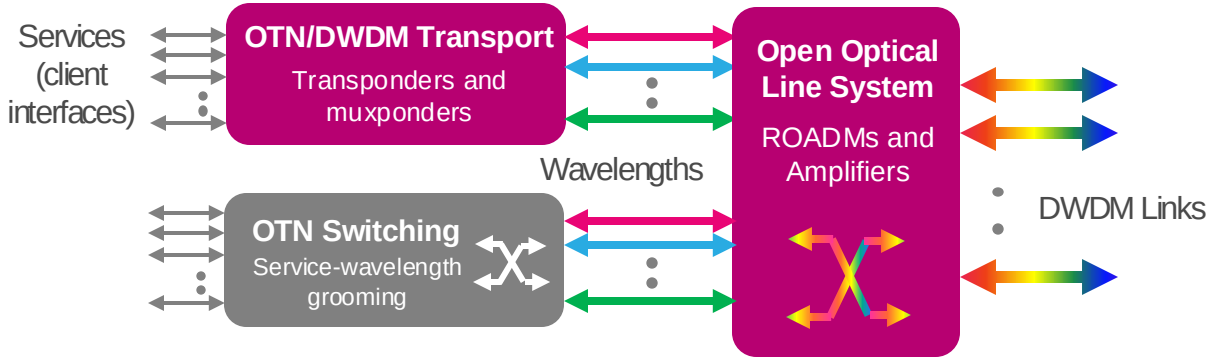
9603 **9608/D**

9624

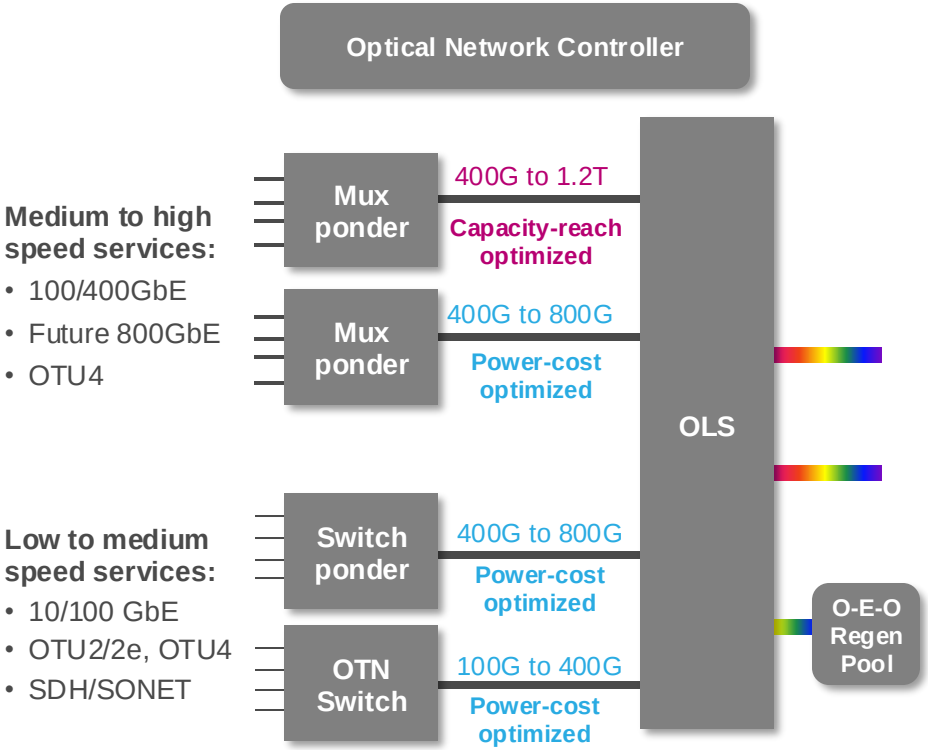
9900 Series
Scalable OTN Switching

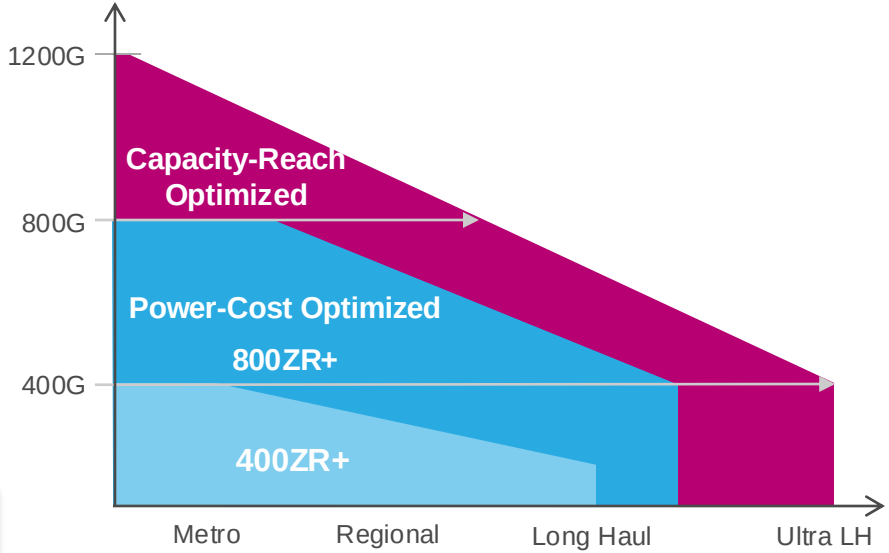
- Optimize wavelength fill
- Point-and-click provisioning
- ASON restoration

9901X 400G **9904X** 2.8T **9914** 5.6T **9932** 16T

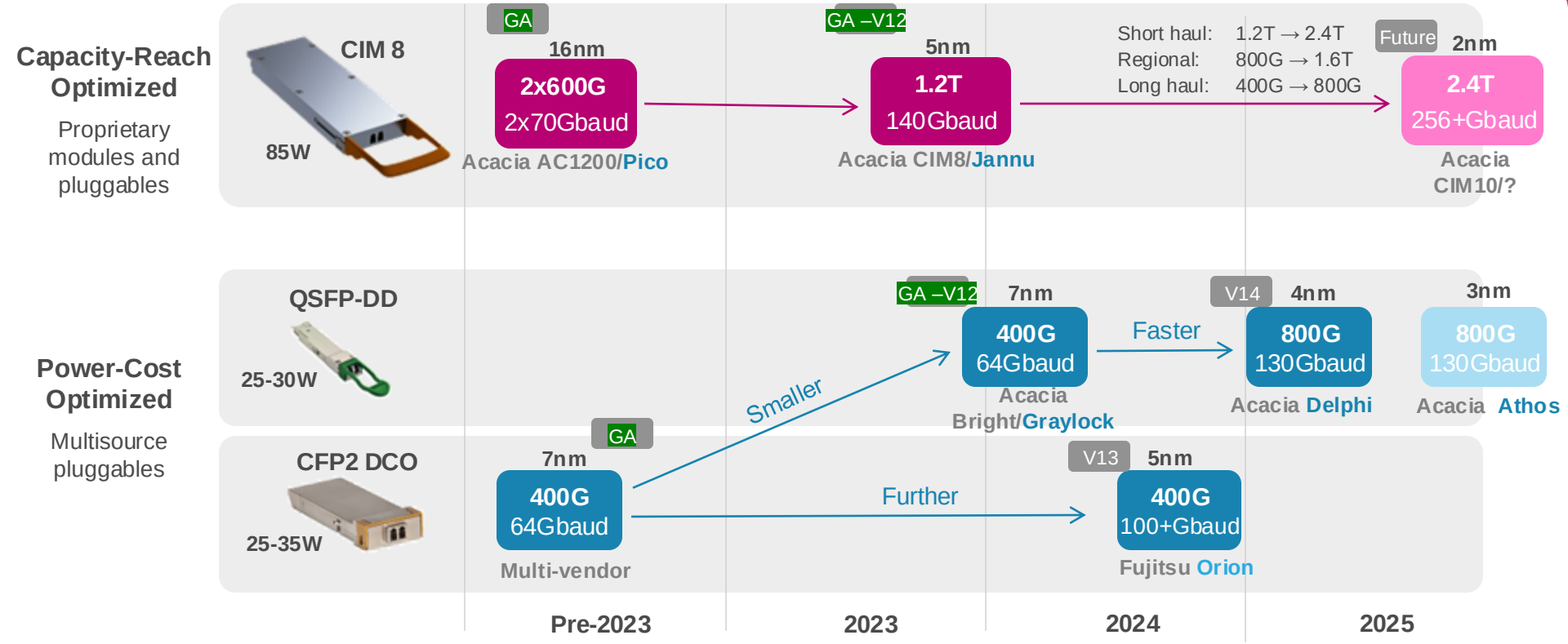


Lowest Cost per Bit Optical Transport





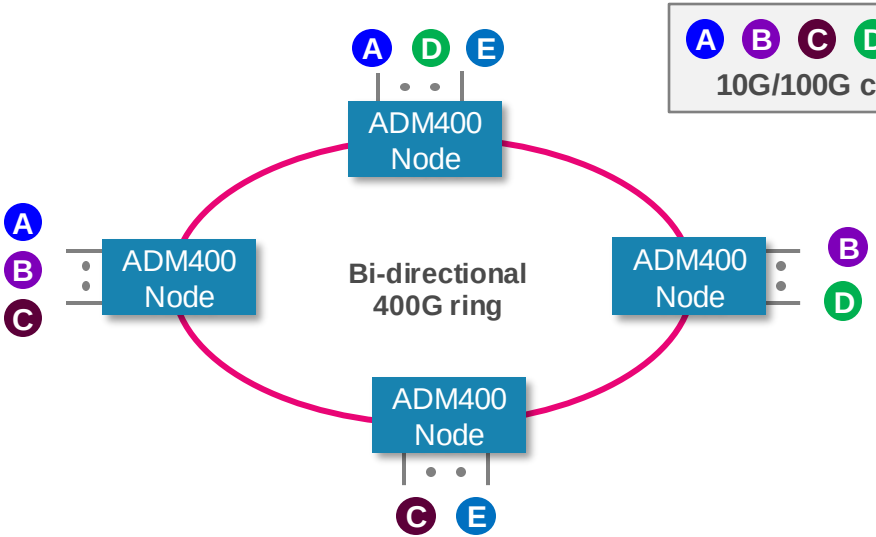
Apollo Roadmap for Industry-Best 0dbm+ Transceivers

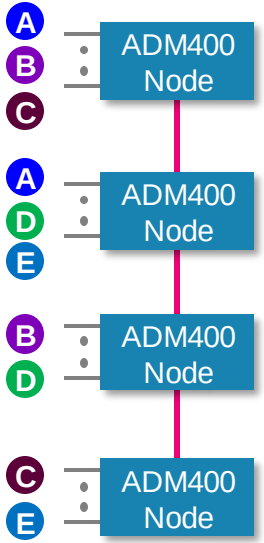


Apollo Options for 100GbE and 400GbE Transport

	Apollo 9408 High Density Applications	**Apollo 9600 Series** Modular Applications
	 Data Center 600mm deep F2B airflow	 Telco 300mm deep R2L airflow (9608D F2B airflow)
Capacity-Reach (Performance) Optimized	MPJ1200_2 with 2 x CIM8 5nm-140Gbaud to 1.2T	TM800_2 with 2 x CIM8 5nm-140Gbaud to 800G
Power-Cost Optimized	MPQ_8 with 8 x QSFP-DD FPQ_2 for LR4 support 0dBM 400G Metro upgradeable to 800G	TM400_2 with 2 x CFP2-DCO • 0dBM 400G Metro • 0dbM 400G LH

Apollo 9603 ADM400 Node for Ring and Chain Applications





Thank You